

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION

GDR-02

Effective Date: July 1, 2013

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building code (IBC)**. This product shall be subject to reevaluation **November 2013**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Clopay Residential Steel Sectional Garage Doors, Gallery Pan, Coachman, and Classic EPS, Non-impact Resistant and Impact Resistant, manufactured by

Clopay Building Products Company
8585 Duke Blvd.
Mason, OH 45040
Telephone: (513) 770-4800

and marketed under the following brand names:

Clopay
Ideal
Holmes

and sold under the following private labels:

Ideal Door Company
Holmes Garage Door

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation. Installation instructions and the appropriate design drawings for the particular model, as shown in Table 1 through Table 4, shall be provided and available on the job site during installation.

PRODUCT DESCRIPTION

The garage doors specified in this product evaluation report are sectional overhead doors constructed from galvanized steel with a baked on polyester finish. The doors may be raised panel or flat and may have a smooth or an embossed wood grain texture. Insulated sectional garage doors will have an interior skin with 1 $\frac{5}{16}$ " thick or 1" thick, 1.0 pcf density polystyrene foam insulation between the skins.

Product Identification: A label will be affixed to the garage door. The label shall include the manufacturer's name, manufacturing product code, and the allowable design pressure rating. To minimize inventory, the same section construction configuration is used across several different wind load levels for the same door model and size. The section remains the same because it is the differences in the struts, track, and hardware that allows for the same section to be upgradeable for different wind load

levels. The label will list all approved variations that the section can be used to construct and each design drawing will list the equivalent sections.

LIMITATIONS

This evaluation report includes both non-impact and impact resistant sectional garage doors.

Impact resistant doors may include optional glazing.

The maximum height of each door section shall not exceed 24 inches. Refer to the design drawings for the allowable section height for a particular door.

The doors shall have a maximum allowable width of 18 feet 2 inches. Refer to Tables 1 through 4 for the allowable width of the door for a particular door model.

The doors shall have a maximum allowable height of 16 feet.

The design pressure rating for a particular model door is specified in Tables 1 through 4.

Impact Resistance:

The doors assemblies specified in Table 1 through Table 3 have not been tested for windborne debris resistance. Doors specified in Table 1 through Table 3 that contain glazing may not be installed in the Inland I zone unless the entire door is protected with an impact protective system. All doors specified in Table 1 through Table 3 may not be installed in the Seaward zone unless the entire door is protected with an impact protective system.

The door assemblies specified in Table 4 satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I zone and the Seward zone and do not need to be protected with an impact protective system. Impact resistant doors may have impact resistant glazing as detailed on the design drawings.

INSTALLATION INSTRUCTIONS

Design Drawings: The doors shall be installed as specified on the design drawings. The design drawings shall be provided with the door. Each page of the design drawings shall be sealed, dated, and signed by Mark W. Westerfield, PE. The seal date of the drawing is specified on the design drawings. The following information, as a minimum, shall be provided within boxes located on each page of the design drawings:

- Manufacturing Product Code
- Brand Names and Model Numbers
- Drawing Number
- Drawing Revision Number
- Design Pressure Rating
- Maximum Door Size (Width and Height)
- Maximum Section Height

Attachment of Doors to Wall Framing: The door track brackets shall be attached either directly to the wall framing or to minimum 2x6 Southern Yellow Pine wood jambs that are secured to the wall framing with fasteners. The allowable methods of attachment and illustrations of the allowable methods of attachment are specified on each design drawing.

Direct Attachment of Door Track Brackets to Wall Framing: The wall framing shall be minimum Southern Yellow Pine dimension lumber. The track bracket shall be secured to the wall framing with lag screws as specified on the design drawings. Refer to the design drawings for the proper location of the lag screws into the wall framing.

Attachment of Door Components to Wood-Framed Walls Using a Wood Jamb: Brackets for the vertical tracks of the door shall be attached directly to wood jambs with the fasteners specified on the design drawings. The attachment of the wood jambs to the wood-framed walls shall be as specified in the Jamb Fastener Analysis Connecting Jamb to Existing Structure, document CBPC-JFA-0001-REV01, signed and sealed on June 11, 2013 by Mark Westerfield, P.E.

Attachment of Door Components to Concrete/Masonry Block Walls Using a Wood Jamb: Brackets for the vertical tracks of the door shall be attached directly to wood jambs with the fasteners specified on the design drawings. The attachment of the wood jambs to the concrete/masonry block walls shall be as specified in the Jamb Fastener Analysis Connecting Jamb to Existing Structure, document CBPC-JFA-0001-REV01, signed and sealed on June 11, 2013 by Mark Westerfield, P.E.

Note: The manufacturer's installation instructions, the design drawings, and the Jamb Fastener Analysis Connecting Jamb to Existing Structure document shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.

Non-Impact Resistant Doors

Design Drawings: Specified in Table 1 through Table 3.

Allowable Dimensions: Specified in Table 1 through Table 3.

Design Pressures: Specified in Table 1 through Table 3.

Glazing: The glazing construction and dimensions are specified on the design drawings.

Louvers: Not permitted.

Impact Resistance: The doors assemblies specified in Table 1 through Table 3 have not been tested for windborne debris resistance. Doors specified in Table 1 through Table 3 that contain glazing may not be installed in the Inland I zone unless the entire door is protected with an impact protective system. All doors specified in Table 1 through Table 3 may not be installed in the Seaward zone unless the entire door is protected with an impact protective system.

Impact Resistant Doors

Design Drawings: Specified in Table 4.

Allowable Dimensions: Specified in Table 4.

Design Pressures: Specified in Table 4.

Glazing: The glazing construction and dimensions are specified on the design drawings.

Louvers: Not permitted.

Impact Resistance: The door assemblies specified in Table 3 through Table 5 satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I zone and the Seward zone and do not need to be protected with an impact protective system. Impact resistant doors may have impact-resistant glazing as detailed on the design drawings.

Table 1 - Non-Impact Rated Assemblies

Clopay, IDEAL and Holmes W4 Doors

Manufacturing Product Code (all brands)	Model Numbers (Clopay)	Model Numbers (IDEAL)	Model Numbers (Holmes)	Door Width (Max.)	Door Height (Max.)	Drawing Number	Design Pressure (psf)	Glass Option
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	9'-0"	16'-0"	101652-TDI Rev. 9, 10/2009 Sealed 10/3/2013	+28, -29	Yes
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	16'-0"	16'-0"	101481-TDI Rev. 11, 11/2009 Sealed 10/3/2012	+25.5, -25.5	Yes
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	18'-0"	16'-0"	101247-TDI Rev. 18, 06/2013 Sealed 6/6/2013	+25.0, -25.0	Yes
PAN-2F441	G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L, G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV, GR4LV	E4S, E4L, ED4S, ED4L, E4SV, E4LV, ED4SV, ED4LV	SS4, SL4, AR4S, AR4L, SS4V, SL4V, AR4SV, AR4LV	9'-0"	16'-0"	103486-TDI Rev. 9, 06/2013 Sealed 6/6/2013	+25.0, -32.0	Yes
PAN-2F443 PAN-2F441	G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L, G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV, GR4LV	E4S, E4L, ED4S, ED4L, E4SV, E4LV, ED4SV, ED4LV	SS4, SL4, AR4S, AR4L, SS4V, SL4V, AR4SV, AR4LV	16'-0"	16'-0"	103454-TDI Rev 7, 06/2013 Sealed 6/6/2013	+25.0, -25.0	Yes
PAN-2F443 PAN-2F446	G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L, G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV, GR4LV	E4S, E4L, ED4S, ED4L, E4SV, E4LV, ED4SV, ED4LV	SS4, SL4, AR4S, AR4L, SS4V, SL4V, AR4SV, AR4LV	18'-0"	16'-0"	103498-TDI Rev. 06, 06/2013 Sealed 6/6/2013	+25.0, -25.0	No
DSIEO-1F479	Coachman	Affinity	Settler	16'-0"	16'-0"	103046-TDI Rev. 9, 06/2013 Sealed 6/6/2013	+25.0, -25.0	Yes

Table 2 - Non-Impact Rated Assemblies

Clopay, IDEAL and Holmes W5 Doors

Manufacturing Product Code (all brands)	Model Numbers (Clopay)	Model Numbers (IDEAL)	Model Numbers (Holmes)	Door Width (Max.)	Door Height (Max.)	Drawing Number	Design Pressure (psf)	Glass Option
PAN-2F441	G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L, G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV, GR4LV	E4S, E4L, ED4S, ED4L, E4SV, E4LV, ED4SV, ED4LV	SS4, SL4, AR4S, AR4L, SS4V, SL4V, AR4SV, AR4LV	9'-0"	16'-0"	103487-TDI Rev. 8, 06/2013 Sealed 6/6/2013	+30.0, -32.0	Yes
PAN-2F443 PAN-2F441	G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L, G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV, GR4LV	E4S, E4L, ED4S, ED4L, E4SV, E4LV, ED4SV, ED4LV	SS4, SL4, AR4S, AR4L, SS4V, SL4V, AR4SV, AR4LV	16'-0"	16'-0"	103471-TDI Rev. 7, 06/2013 Sealed 6/6/2013	+30.0, -30	Yes
DSIEO-1F479	Coachman	Affinity	Settler	9'-0"	16'-0"	102996-TDI Rev. 8, 06/2013 Sealed 6/6/2013	+33.0, -37.0	Yes
DSIEO-1M479	Coachman	Affinity	Settler	16'-0"	16'-0"	103710-TDI Rev. 4, 06/2013 Sealed 6/6/2013	+30.0, -30.0	Yes

Table 3 - Non-Impact Rated Assemblies

Clopay, IDEAL and Holmes W6 Doors

Manufacturing Product Code (all brands)	Model Numbers (Clopay)	Model Numbers (IDEAL)	Model Numbers (Holmes)	Door Width (Max.)	Door Height (Max.)	Drawing Number	Design Pressure (psf)	Glass Option
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	9'-0"	16'-0"	101526-TDI Rev. 12, 09/2010 Sealed 10/3/2012	+37.0, -40.0	Yes
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	16'-2"	16'-0"	101486-TDI Rev. 13, 09/2010 Sealed 10/3/2012	+37.0, -40.0	Yes
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	18'-2"	16'-0"	101487-TDI Rev. 15, 06/2013 Sealed 6/6/2013	+37.0, -37.0	Yes
PAN-2F443 PAN-2F441	G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L, G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV, GR4LV	E4S, E4L, ED4S, ED4L, E4SV, E4LV, ED4SV, ED4LV	SS4, SL4, AR4S, AR4L, SS4V, SL4V, AR4SV, AR4LV	9'-0"	16'-0"	103488-TDI Rev. 8, 06/2013 Sealed 6/6/2013	+37.0, -37.0	No

Table 3 - Non-Impact Rated Assemblies (Continued)

Clopay, IDEAL and Holmes W6 Doors

Manufacturing Product Code (all brands)	Model Numbers (Clopay)	Model Numbers (IDEAL)	Model Numbers (Holmes)	Door Width (Max.)	Door Height (Max.)	Drawing Number	Design Pressure (psf)	Glass Option
PAN-2F443 PAN-2F446	G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L, G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV, GR4LV	E4S, E4L, ED4S, ED4L, E4SV, E4LV, ED4SV, ED4LV	SS4, SL4, AR4S, AR4L, AR4L, SS4V, SL4V, AR4SV, AR4LV	16'-2"	16'-0"	103489-TDI Rev. 8, 06/2013 Sealed 6/6/2013	+37.0, -41.0	Yes
DSIEO-1M479	Coachman	Affinity	Settlers	9'-0"	16'-0"	103223-TDI Rev. 13, 06/2013 Sealed 6/6/2013	+38.0, -42.0	Yes
DSIEO-1M479	Coachman	Affinity	Settlers	16'-2"	16'-0"	103243-TDI Rev. 13, 06/2013 Sealed 6/6/2013	+37.0, -40.0	No
DSIEO-1M479	Coachman	Affinity	Settlers	18'-2"	16'-0"	103519-TDI Rev. 6, 06/2013 Sealed 6/6/2013	+37.0, -37.0	No

Table 4 - Impact Rated Assemblies

Clopay, IDEAL and Holmes W8 Doors

Manufacturing Product Code (all brands)	Model Numbers (Clopay)	Model Numbers (IDEAL)	Model Numbers (Holmes)	Door Width (Max.)	Door Height (Max.)	Drawing Number	Design Pressure (psf)	Glass Option
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	9'-0"	16'-0"	101703-TDI Rev. 11, 09/2010 Sealed 10/3/2012	+48.0, -60.0	Yes
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	16'-2"	16'-0"	101488-TDI Rev. 13, 09/2010 Sealed 10/3/2012	+46.6, -52.0	Yes
DSIE-1F171	4400, 4401 4300, HDG, 4301, HDGF 4310, HDGL	SP200 SF200 SE200	66, 66G 6200, 68 6201, 67 67G, 6203	18'-2"	16'-0"	103028-TDI Rev. 8, 09/2010 Sealed 10/3/2012	+46.0, -50.0	No
DSIEO-1M479	Coachman	Affinity	Settlers	9'-0"	16'-0"	103436-TDI Rev. 02, 08/2012 Sealed 10/3/2012	+54.0, -60.0	No